



Title: Seat Position Adjusting Structure in Exercise Bicycle

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A translation of the Brief Description of the Drawings and the claims of cited reference 2 follows.

Brief description of the drawings

Fig. 1 is a cross-sectional view showing the seat position adjusting structure of prior art.

Fig. 2 is a perspective view showing the preferred embodiment of the invention.

Fig. 3 is an exploded perspective view showing the adjusting structure in Fig. 2.

Fig. 4 is a cross-sectional view taken along line 4-4 in Fig. 2.

Fig. 5 is a cross-sectional view taken along line 5-5 in Fig. 2.

What is claimed is

1. A seat position adjusting structure in an exercise bicycle, comprising:
  - a frame (10);
  - a sleeve (20) inserted to the frame (10) and on which a seat is mounted, the sleeve (20) can slide along the frame (10);
  - characterized in that:
    - the ends of the sleeve (20) respectively have positioning holes (21, 22), a threaded hole (23) into which an urging bolt (24) is screwed is near one of the positioning holes (21, 22);
    - a first positioning sleeve (30) is placed at the opposite end to the urging bolt (24) and has an opening (31) through which the frame (10) can pass, a protrusion (32) is provided on the first positioning sleeve (30) to engage with the positioning hole (22);
    - a second positioning sleeve (40) is provided opposite to the first positioning sleeve (30) and has an opening (41) through which the frame (10) can pass, a protrusion (42) is provided on the second positioning sleeve (40) to engage with the positioning hole (21), the second positioning sleeve (40) further has two cut portions (43, 44) and forms an elastic portion (45);
    - whereby urging the bolt (24) against the elastic portion (45) of the second sleeve (40), the sleeve (20) can be firmly attached to the frame (10).
2. The seat position adjusting structure in the exercise bicycle according to claim 1, wherein the elastic portion (45) of the second sleeve (40) further comprises a metal plate.

# 公告本

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## 發明專利說明書

一、發明 名稱	中 文	健身車之椅座定位調整構造
	英 文	
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	代 表 人 姓 名	

## 五、創作說明 ( )

圖式之簡單說明：

第一圖係習見健身車之椅座定位調整構造。

第二圖係本創作一較佳實施例之外觀示意圖。

第三圖係第二圖中該定位調整構造之局部分解立體  
5 圖。

第四圖係第二圖之 4-4 方向剖示圖。

第五圖係第二圖之 5-5 方向剖示圖。

(請先閱讀背面之注意事項再填寫本頁)

表

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## 六、申請專利範圍

1. 一種健身車之椅座定位調整構造，其係於健身車之骨架軸桿上套設有一具適當長度之套管，該套管上得供健身車之座墊固設，且其更可沿該骨架軸桿之軸向移動調整定位，其特徵在於：該套管之二端頂側適當位置處各分別貫設有一定位穿孔，並於其中一側更再凹設有一螺孔恰供一迫緊螺栓螺合；一第一定位滑套，係為耐磨塑膠所一體射出成型而嵌套於該套管相對於該迫緊螺栓之一端，其軸心設有一套孔供該骨架軸桿穿設，而其頂面則向上凸設有一限位凸緣而恰嵌卡入該套管之定位穿孔；一第二定位滑套，亦係為耐磨塑膠所一體射出成型而恰嵌套於該套管相對於該第一定位滑套之一端，其軸心亦設有一套孔供該骨架軸桿穿設，其頂面則向上凸設有一限位凸緣而恰嵌卡入該套管之定位穿孔，且其位於該套管迫緊螺栓之二側各再開設有一切槽，促使其頂面中間段形成一可上下壓縮移動之彈片部；

藉由該迫緊螺栓迫抵於該第二滑套之彈片部，並相對下壓迫緊於該骨架軸桿之外周面，而得使該套管與骨架軸桿相固設結合者。

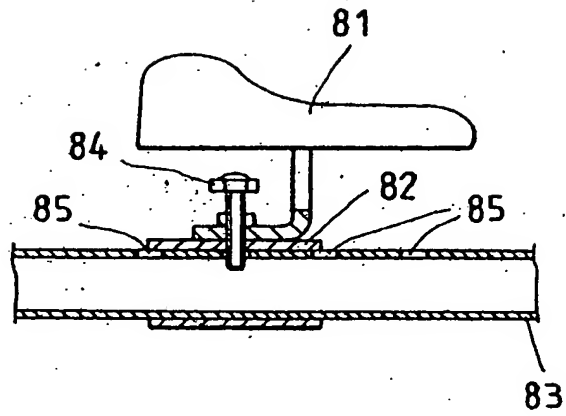
2. 依據申請專利範圍第 1 項所述之健身車之椅座定位調整構造，其中該第二定位滑套之彈片部頂面更再固設有一金屬板片，恰供該迫緊螺栓軸向頂迫施力者。

(請先閱讀背面之注意事項再填寫本頁)

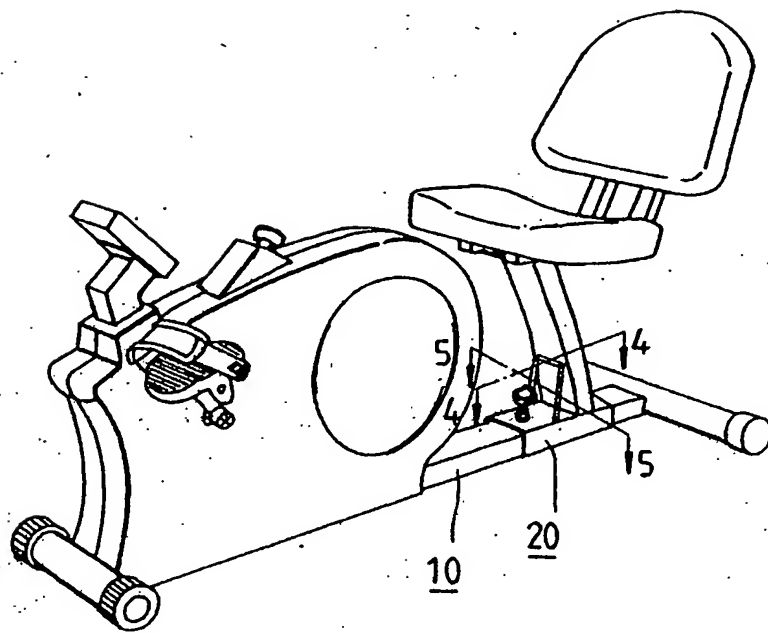
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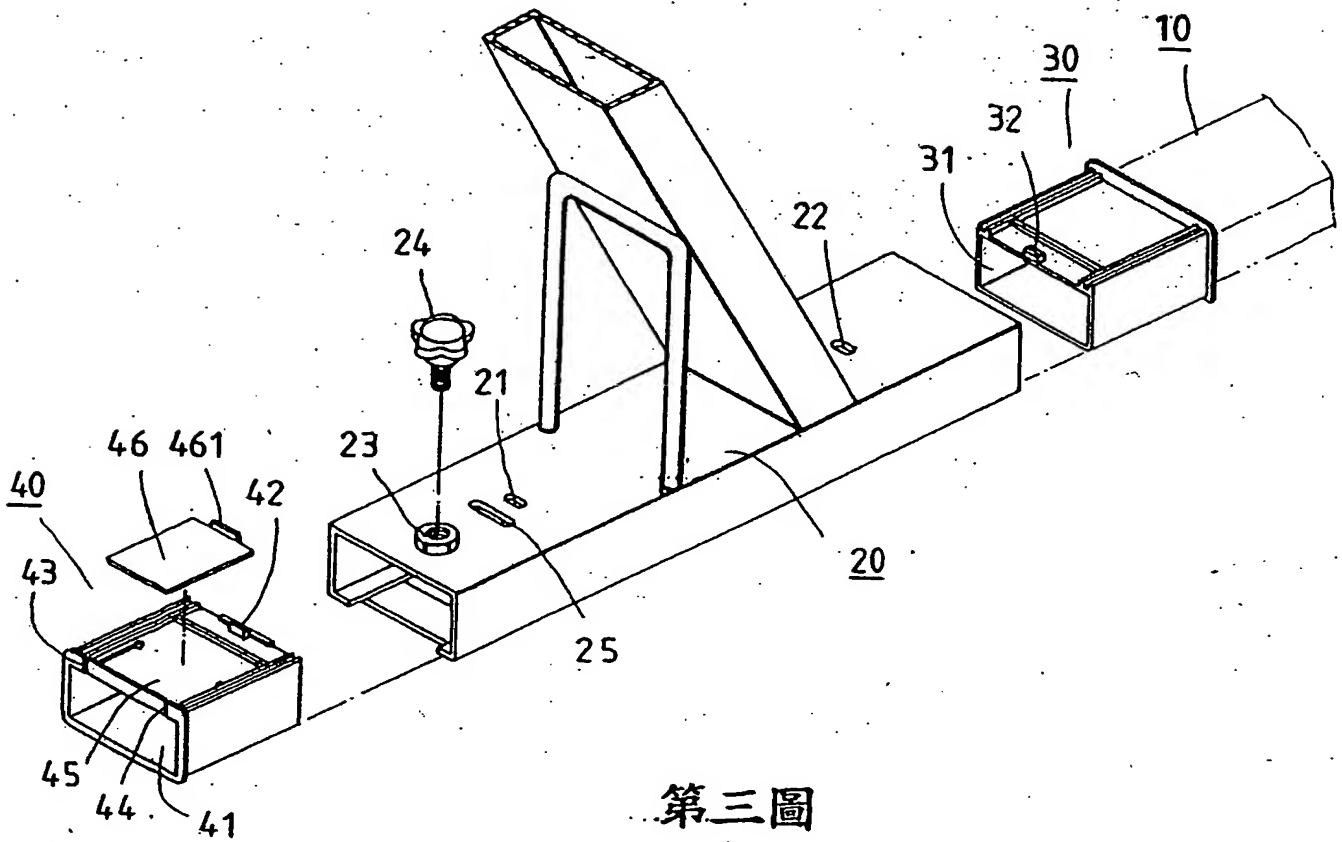


第一圖  
(Fig. 1)

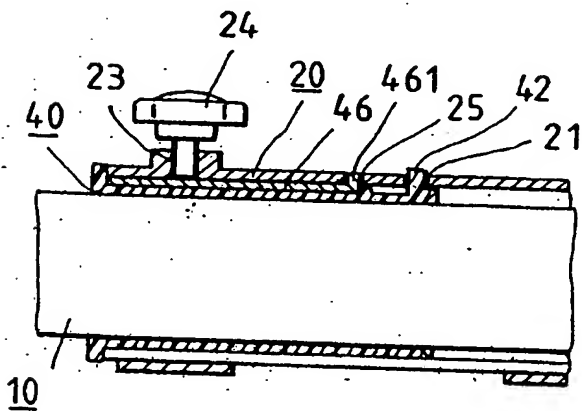


第二圖  
(Fig. 2)

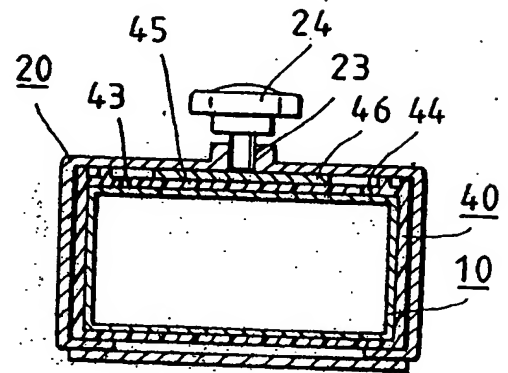
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第三圖  
(Fig. 3)



第四圖  
(Fig. 4)



第五圖  
(Fig. 5)